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Spatial and Temporal Databases Mario A. Nascimento 2013-07-17 This book constitutes the refereed proceedings of the 13th International Symposium on Spatial and Temporal Databases, SSTD 2013, held in Munich, Germany, in August 2013. The 24 revised full papers presented were carefully reviewed and selected from 58 submissions. The papers are organized in topical sections on joins and algorithms; mining and discovery; indexing; trajectories and road network data; nearest neighbours queries; uncertainty; and demonstrations.

Mobile Application Development, Usability, and Security Mukherjea, Sougata 2016-10-19 The development of mobile technology has experienced exponential growth in recent years. Mobile devices are ubiquitous in modern society, impacting both our personal and professional lives. Mobile Application Development, Usability, and Security provides a thorough overview on the different facets of mobile technology management and its integration into modern society. Highlighting issues related to analytics, cloud computing, and different types of application development, this book is a pivotal reference source for professionals, researchers, upper-level students, and practitioners actively involved in the area of mobile computing.

Community Information and Services Centers Cleve Hopkins 1976

Automated Deduction - Cade-13 International Conference On Automated Deduction 19 1996-07 This book constitutes the refereed proceedings of the 13th International Conference on Automated Deduction, CADE-13, held in July/August 1996 in New Brunswick, NJ, USA, as part of FLoC '96. The volume presents 46 revised regular papers selected from a total of 114 submissions in this category; also included are 15 selected system descriptions and abstracts of two invited talks. The CADE conferences are the major forum for the presentation of new results in all aspects of automated deduction. Therefore, the volume is a timely report on the state-of-the-art in the area.

Global Inequalities at Work Jody Heymann 2003 Drawing on studies around the world, this book critically examines the many ways in which work is affecting health. It includes discussion of the ways in which working conditions affect income inequalities and health and the ways in which working conditions influence gender inequalities and health.

Bibliographic Guide to Law 1987

Data Warehousing 2000 Reinhard Jung 2013-03-08 Data Warehousing hat in den letzten Jahren in vielen Unternehmen stark an Bedeutung gewonnen und ist dabei zu einer der zentralen Herausforderungen im Informationsmanagement geworden. Für viele Anwendungen, wie beispielsweise Customer-Relationship-Management oder Führungsinformationssysteme, bilden Data-Warehouse-Architekturen eine wesentliche Grundlage. Der Tagungsband zur Konferenz "Data Warehousing 2000 - Methoden, Anwendungen, Strategien" gibt einen Überblick zum State-of-the-Art sowohl im Bereich Entwicklung aus technischer und organisatorischer bzw. betriebswirtschaftlicher Sicht als auch im Bereich der vielfältigen Anwendungsmöglichkeiten einer Data-Warehouse-Architektur. Neben Aufsätzen aus dem wissenschaftlichen Bereich finden sich auch Berichte aus laufenden und abgeschlossenen Projekten im Umfeld des Data Warehousing.

FME '93: Industrial-Strength Formal Methods Jim Woodcock 1993 The last few years have borne witness to a remarkable diversity of formal methods, with applications to sequential and concurrent software, to real-time and reactive systems, and to hardware design. In that time, many theoretical problems have been tackled and solved, and many continue to be worked upon. Yet it is by the suitability of their industrial application and the extent of their usage that formal methods will ultimately be judged. This volume presents the proceedings of the first international symposium of Formal Methods Europe, FME'93. The symposium focuses on the application of industrial-strength formal methods. Authors address the difficulties of scaling their techniques up to industrial-sized problems, and their suitability in the workplace, and discuss techniques that are formal (that is, they have a mathematical basis) and that are industrially applicable. The volume has four parts: - Invited lectures, containing a lecture by Cliff B. Jones and a lecture by Antonio Cau and Willem-Paul de Roever; - Industrial usage reports, containing 6 reports; - Papers, containing 32 selected and refereedpapers; - Tool descriptions, containing 11 descriptions.

Coordination Languages and Models

Handbook of Research on Healthcare Administration and Management Wickramasinghe, Nilmini 2016-08-23 Effective healthcare delivery is a vital concern for citizens and communities across the globe. The numerous facets of this industry require constant re-evaluation and optimization of management techniques. The Handbook of Research on Healthcare Administration and Management is a pivotal reference source for the latest scholarly material on emerging strategies and methods for delivering optimal healthcare opportunities and solutions. Highlighting issues relating to decision making, process optimization, and technological applications, this book is ideally designed for policy makers, administrators, students, professionals, and researchers interested in achieving superior healthcare solutions.

10th International Conference on Automated Deduction Mark E. Stickel 1990-07-17 Proceedings of CADE-10. CADE is the major forum for research on all aspects of automated deduction. The CADE conferences have no peer in the concentration and quality of their automated deduction research contributions.

Learning Informatica PowerCenter 10. X - Second Edition Rahul Malewar 2017-08-10 Harness the power and simplicity of Informatica PowerCenter 10.x to build and manage efficient data management solutionsAbout This Book* Master PowerCenter 10.x components to create, execute, monitor, and schedule ETL processes with a practical approach.* An ideal guide to building the necessary skills and competencies to become an expert Informatica PowerCenter developer.* A comprehensive guide to fetching/transforming and loading huge volumes of data in a very effective way, with reduced resource consumptionWho This Book Is ForIf you wish to deploy Informatica in enterprise environments and build a career in data warehousing, then this book is for you. Whether you are a software developer/analytic professional and are new to Informatica or an experienced user, you will learn all the features of Informatica 10.x. A basic knowledge of programming and data warehouse concepts is essential.What You Will Learn* Install or upgrade the components of the Informatica PowerCenter tool* Work on various aspects of administrative skills and on the various developer Informatica PowerCenter screens such as Designer, Workflow Manager, Workflow Monitor, and Repository Manager.* Get practical hands-on experience of various sections of

Informatica PowerCenter, such as navigator, toolbar, workspace, control panel, and so on* Leverage basic and advanced utilities, such as the debugger, target load plan, and incremental aggregation to process data* Implement data warehousing concepts such as schemas and SCDs using Informatica* Migrate various components, such as sources and targets, to another region using the Designer and Repository Manager screens* Enhance code performance using tips such as pushdown optimization and partitioningIn DetailInformatica PowerCenter is an industry-leading ETL tool, known for its accelerated data extraction, transformation, and data management strategies. This book will be your quick guide to exploring Informatica PowerCenter's powerful features such as working on sources, targets, transformations, performance optimization, scheduling, deploying for processing, and managing your data at speed.First, you'll learn how to install and configure tools. You will learn to implement various data warehouse and ETL concepts, and use PowerCenter 10.x components to build mappings, tasks, workflows, and so on. You will come across features such as transformations, SCD, XML processing, partitioning, constraint-based loading, Incremental aggregation, and many more. Moreover, you'll also learn to deliver powerful visualizations for data profiling using the advanced monitoring dashboard functionality offered by the new version.Using data transformation technique, performance tuning, and the many new advanced features, this book will help you understand and process data for training or production purposes. The step-by-step approach and adoption of real-time scenarios will guide you through effectively accessing all core functionalities offered by Informatica PowerCenter version 10.x.Style and approachYou'll get hand-on with sources, targets, transformations, performance optimization, scheduling, deploying for processing, and managing your data, and learn everything you need to become a proficient Informatica PowerCenter developer.

Advances in Computing and Communications, Part IV Ajith Abraham 2011-07-06 This volume is the fourth part of a four-volume set (CCIS 190, CCIS 191, CCIS 192, CCIS 193), which constitutes the refereed proceedings of the First International Conference on on Computing and Communications, ACC 2011, held in Kochi, India, in July 2011. The 62 revised full papers presented in this volume were carefully reviewed and selected from a large number of submissions. The papers are the papers of the Workshop on Cloud Computing: Architecture, Algorithms and Applications (CloudComp2011), of the Workshop on Multimedia Streaming (MultiStreams2011), and of the Workshop on Trust Management in P2P Systems (IWTMP2PS2011).

Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office 1978

Monthly Catalog of United States Government Publications

Spatial Big Data Science Zhe Jiang 2017-07-13 Emerging Spatial Big Data (SBD) has transformative potential in solving many grand societal challenges such as water resource management, food security, disaster response, and transportation. However, significant computational challenges exist in analyzing SBD due to the unique spatial characteristics including spatial autocorrelation, anisotropy, heterogeneity, multiple scales and resolutions which is illustrated in this book. This book also discusses current techniques for, spatial big data science with a particular focus on classification techniques for earth observation imagery big data. Specifically, the authors introduce several recent spatial classification techniques, such as spatial decision trees and spatial ensemble learning. Several potential future research directions are also discussed. This book targets an interdisciplinary audience including computer scientists, practitioners and researchers working in the field of data mining, big data, as well as domain scientists working in earth science (e.g., hydrology, disaster), public safety and public health. Advanced level students in computer science will also find this book useful as a reference.

Vector and Parallel Processing - VECPAR'98 Jose M.L.M. Palma 2006-10-11 This book constitutes the thoroughly refereed post-conference proceedings of the Third International Conference on Vector and Parallel Processing, VECPAR'98, held in Porto, Portugal, in June 1998. The 41 revised full papers presented were carefully selected during two rounds of reviewing and revision. Also included are six invited papers and introductory chapter surveys. The papers are organized in sections on eigenvalue problems and

solutions of linear systems; computational fluid dynamics, structural analysis, and mesh partitioning; computing in education; computer organization, programming and benchmarking; image analysis and synthesis; parallel database servers; and nonlinear problems.

On the Move to Meaningful Internet Systems: OTM 2011 Workshops Robert Meersman 2011-10-30 This volume constitutes the refereed proceedings of nine international workshops, EI2N+NSF ICE, ICSP, INBAST, ISDE, MONET, ORM, SeDeS, SWWS, and VADER 2011, held as part of OTM 2011 in Hersonissos on the island of Crete, Greece, in October 2011. The 64 revised full papers presented were carefully reviewed and selected from a total of 104 submissions. The volume also includes three papers from the On the Move Academy (OTMA) 2011 and five ODBASE 2011 poster papers. Topics of the workshop papers are enterprise integration and semantics, information centric engineering, interoperability, industrial and business applications of semantic Web applications, information systems in distributed environments, process management in distributed information system development, distributed information systems: implementation issues and applications, industrial applications of fact-oriented modeling, data warehouse modeling, extensions to fact-oriented modeling, model validation procedures, schema transformations and mapping, semantic Web and Web semantics, ontology development, deployment and interoperability, data access and efficient computation, efficient information processing, exchange and knowledge synthesis algorithms, mobile and networking technologies for social applications, semantic and decision support, variability in software architecture, and dynamic and adaptive architectures.

Computational Collective Intelligence Manuel Núñez 2015-09-09 This two-volume set (LNAI 9329 and LNAI 9330) constitutes the refereed proceedings of the 7th International Conference on Collective Intelligence, ICCCI 2014, held in Madrid, Spain, in September 2015. The 110 full papers presented were carefully reviewed and selected from 186 submissions. They are organized in topical sections such as multi-agent systems; social networks and NLP; sentiment analysis; computational intelligence and games; ontologies and information extraction; formal methods and simulation; neural networks, SMT and MIS; collective intelligence in Web systems – Web systems analysis; computational swarm intelligence; cooperative strategies for decision making and optimization; advanced networking and security technologies; IT in biomedicine; collective computational intelligence in educational context; science intelligence and data analysis; computational intelligence in financial markets; ensemble learning; big data mining and searching.

Current Trends in Data Management Technology Asuman Dogac 1999-01-01 Current Trends in Data Management Technology reports on the most recent, important advances in data management as it applies to diverse issues, such as Web information management, workflow systems, electronic commerce, reengineering business processes, object-oriented databases, and more.

Man–Machine Interactions 4 Aleksandra Gruca 2015-10-01 This book provides an overview of the current state of research on development and application of methods, algorithms, tools and systems associated with the studies on man-machine interaction. Modern machines and computer systems are designed not only to process information, but also to work in dynamic environment, supporting or even replacing human activities in areas such as business, industry, medicine or military. The interdisciplinary field of research on man-machine interactions focuses on broad range of aspects related to the ways in which human make or use computational artifacts, systems and infrastructure. This monograph is the fourth edition in the series and presents new concepts concerning analysis, design and evaluation of man-machine systems. The selection of high-quality, original papers covers a wide scope of research topics focused on the main problems and challenges encountered within rapidly evolving new forms of human-machine relationships. The presented material is structured into following sections: human-computer interfaces, robot, control, embedded and navigation systems, bio-data analysis and mining, biomedical signal processing, image and motion data processing, decision support and expert systems, pattern recognition, fuzzy systems, algorithms and optimisation, computer networks and mobile technologies, and data management systems.

Prêmio Compaq de Estímulo À Pesquisa E Desenvolvimento Em Informática 1996

Advancements in Model-Driven Architecture in Software Engineering Rhazali, Yassine 2020-09-18 An integral element of software engineering is model engineering. They both endeavor to minimize cost, time, and risks with quality software. As such, model engineering is a highly useful field that demands in-depth research on the most current approaches and techniques. Only by understanding the most up-to-date research can these methods reach their fullest potential. Advancements in Model-Driven Architecture in Software Engineering is an essential publication that prepares readers to exercise modeling and model transformation and covers state-of-the-art research and developments on various approaches for methodologies and platforms of model-driven architecture, applications and software development of model-driven architecture, modeling languages, and modeling tools. Highlighting a broad range of topics including cloud computing, service-oriented architectures, and modeling languages, this book is ideally designed for engineers, programmers, software designers, entrepreneurs, researchers, academicians, and students.

Big Data Nasir Raheem 2019-02-21 Big Data: A Tutorial-Based Approach explores the tools and techniques used to bring about the marriage of structured and unstructured data. It focuses on Hadoop Distributed Storage and MapReduce Processing by implementing (i) Tools and Techniques of Hadoop Eco System, (ii) Hadoop Distributed File System Infrastructure, and (iii) efficient MapReduce processing. The book includes Use Cases and Tutorials to provide an integrated approach that answers the 'What', 'How', and 'Why' of Big Data. Features Identifies the primary drivers of Big Data Walks readers through the theory, methods and technology of Big Data Explains how to handle the 4 V's of Big Data in order to extract value for better business decision making Shows how and why data connectors are critical and necessary for Agile text analytics Includes in-depth tutorials to perform necessary set-ups, installation, configuration and execution of important tasks Explains the command line as well as GUI interface to a powerful data exchange tool between Hadoop and legacy r-dbms databases

Clinical Informatics Study Guide John T. Finnell

Network World 1987-02-16 For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

OT Report United States. Dept. of Commerce. Office of Telecommunications 1976

Knowledge Management in Organizations Lorna Uden 2018-07-30 This book contains the refereed proceedings of the 13th International Conference on Knowledge Management in Organizations, KMO 2018, held in Žilina, Slovakia, in August 2018. The theme of the conference was "Emerging Research for Knowledge Management in Organizations." The 59 papers accepted for KMO 2018 were selected from 141 submissions and are organized in topical sections on: Knowledge management models and analysis; knowledge sharing; knowledge transfer and learning; knowledge and service innovation; knowledge creation; knowledge and organization; information systems and information science; knowledge and technology management; data mining and intelligent science; business and customer relationship management; big data and IoT; and new trends in IT.

Computer Architecture Joseph D. Dumas II 2016-11-25 Not only does almost everyone in the civilized world use a personal computer, smartphone, and/or tablet on a daily basis to communicate with others and access information, but virtually every other modern appliance, vehicle, or other device has one or more computers embedded inside it. One cannot purchase a current-model automobile, for example, without several computers on board to do everything from monitoring exhaust emissions, to operating the anti-lock brakes, to telling the transmission when to shift, and so on. Appliances such as clothes washers and dryers, microwave ovens, refrigerators, etc. are almost all

digitally controlled. Gaming consoles like Xbox, PlayStation, and Wii are powerful computer systems with enhanced capabilities for user interaction. Computers are everywhere, even when we don't see them as such, and it is more important than ever for students who will soon enter the workforce to understand how they work. This book is completely updated and revised for a one-semester upper level undergraduate course in Computer Architecture, and suitable for use in an undergraduate CS, EE, or CE curriculum at the junior or senior level. Students should have had a course(s) covering introductory topics in digital logic and computer organization. While this is not a text for a programming course, the reader should be familiar with computer programming concepts in at least one language such as C, C++, or Java. Previous courses in operating systems, assembly language, and/or systems programming would be helpful, but are not essential.

Advances in Mechanism and Machine Science Tadeusz Uhl 2019-06-13 This book gathers the proceedings of the 15th IFToMM World Congress, which was held in Krakow, Poland, from June 30 to July 4, 2019. Having been organized every four years since 1965, the Congress represents the world's largest scientific event on mechanism and machine science (MMS). The contributions cover an extremely diverse range of topics, including biomechanical engineering, computational kinematics, design methodologies, dynamics of machinery, multibody dynamics, gearing and transmissions, history of MMS, linkage and mechanical controls, robotics and mechatronics, micro-mechanisms, reliability of machines and mechanisms, rotor dynamics, standardization of terminology, sustainable energy systems, transportation machinery, tribology and vibration. Selected by means of a rigorous international peer-review process, they highlight numerous exciting advances and ideas that will spur novel research directions and foster new multidisciplinary collaborations.

Attribute Grammars, Applications and Systems International Summer School SAGA 1991-10-23 This volume presents the proceedings of a summer school aimed at teaching the state of the art in attribute grammars, and their relation to other language specification methods. The papers are suited for self-study and for introductory courses.

Color for Architects (Architecture Brief) Juan Serra Lluch 2019-05-14 As far back as the earliest Greek temples, color has been an integral part of architecture but also one of its least understood elements. Color theory is rarely taught in architecture schools, leaving architects to puzzle out the hows and whys of which colors to select and how they interact, complement, or clash. Color for Architects is profusely illustrated and provides a clear, concise primer on color for designers of every kind. This latest volume in our Architecture Briefs series combines the theoretical and practical, providing the basics on which to build a fuller mastery of this essential component of design. A wealth of built examples, exercises, and activities allows students to apply their learning of color to real-world situations.

Emerging Trends in Information and Communication Security Günter Müller 2006-06-01 This book constitutes the refereed proceedings of the International Conference on Emerging Trends in Information and Communication Security, ETRICS 2006, held in Freiburg, Germany, in June 2006. The book presents 36 revised full papers, organized in topical sections on multilateral security; security in service-oriented computing, secure mobile applications; enterprise privacy; privacy, identity, and anonymity; security engineering; security policies; security protocols; intrusion detection; and cryptographic security.

Agent-Oriented Programming Matthew M. Huntbach 2003-07-31 A book that furnishes no quotations is, me judice, no book – it is a plaything. TL Peacock: Crochet Castle The paradigm presented in this book is proposed as an agent programming language. The book charts the evolution of the language from Prolog to intelligent agents. To a large extent, intelligent agents rose to prominence in the mid-1990s because of the World Wide Web and an ill-structured network of multimedia information. Age- oriented programming was a natural progression from object-oriented programming which C++ and more recently Java popularized. Another strand of influence came from a revival of interest in robotics [Brooks, 1991a; 1991b]. The quintessence of an agent is an intelligent, willing slave. Speculation in the area of artificial slaves

is far more ancient than twentieth century science fiction. One documented example is found in Aristotle's Politics written in the fourth century BC. Aristotle classifies the slave as "an animate article of property". He suggests that slaves or subordinates might not be necessary if "each instrument could do its own work at command or by anticipation like the statues of Daedalus and the tripods of Hephaestus". Reference to the legendary robots devised by these mythological technocrats, the former an artificer who made wings for Icarus and the latter a blacksmith god, testify that the concept of robot, if not the name, was ancient even in Aristotle's time.

Product Focused Software Process Improvement Frank Bomarius 2003-06-30 The Third International Conference on Product Focused Software Process Improvement (PROFES 2001) continued the success of the PROFES'99 and PROFES 2000 conferences. PROFES 2001 was organized in Kaiserslautern, Germany, September 10 13, 2001. The PROFES conference has its roots in the PROFES Esprit project (http://www.ele.vtt.fi/profes/), but it quickly evolved into a full fledged general purpose conference in 1999 and since then it has gained wide spread international popularity. As in previous years, the main theme of PROFES 2001 was professional software process improvement (SPI) motivated by product and service quality needs. SPI is facilitated by software process assessment, software measurement, process modeling, and technology transfer and has become a practical tool for quality software engineering and management. The conference addresses both the solutions found in practice as well as relevant research results from academia. The purpose of the conference is to bring to light the most recent findings and results in the area and to stimulate discussion between the researchers, experienced professionals, and technology providers for SPI.

Objektorientierter Softwareentwurf Ruth Breu 2013-03-07 Das Buch vermittelt die grundlegenden Konzepte und Zusammenhänge objektorientierter Entwurfsmethoden. Im Mittelpunkt stehen dabei die graphischen Beschreibungstechniken der Unified Modeling Language (UML). Neben einer kurzen Einführung in Klassen-, Sequenz- und Zustandsdiagramme wird der Leser zunächst mit den Grundbegriffen objektorientierter Systemmodellierung vertraut gemacht. Im Vordergrund steht das Zusammenspiel der unterschiedlichen Diagrammtypen und ihre methodische Verwendung im Use-Case-gesteuerten Entwurf. Das Buch, das nur Grundkenntnisse in objektorientierter Technologie voraussetzt, wendet sich sowohl an Praktiker als auch an Studierende und Lehrende. Es bietet aber auch neue Ansätze, die es für Wissenschaftler interessant machen. Durch seine Einordnung von Konzepten vermittelt es ein tiefgehendes Verständnis der Techniken und der Methodik des objektorientierten Entwurfs - als Grundstein für den effizienten Einsatz in der Praxis.

Communicating Process Architectures ... 2005

Wind Farm Gastón Orlando Suvire 2011-07-28 During the last two decades, increase in electricity demand and environmental concern resulted in fast growth of power production from renewable sources. Wind power is one of the most efficient alternatives. Due to rapid development of wind turbine technology and increasing size of wind farms, wind power plays a significant part in the power production in some countries. However, fundamental differences exist between conventional thermal, hydro, and nuclear generation and wind power, such as different generation systems and the difficulty in controlling the primary movement of a wind turbine, due to the wind and its random fluctuations. These differences are reflected in the specific interaction of wind turbines with the power system. This book addresses a wide variety of issues regarding the integration of wind farms in power systems. The book contains 14 chapters divided into three parts. The first part outlines aspects related to the impact of the wind power generation on the electric system. In the second part, alternatives to mitigate problems of the wind farm integration are presented. Finally, the third part covers issues of modeling and simulation of wind power system.

Learn Informatica in 24 Hours Alex Nordeen 2020-10-31 This is a practical step by step hand-on guide to learn and master Informatica. Informatica is widely used ETL tool and provided end to end data integration and management solution. This book introduces Informatica in detail. It provides a detailed step by step installation tutorial of Informatica. It teaches various activities like data cleansing, data profiling, transforming and scheduling the workflows from source to target in simple steps, etc. Here is what you will learn – Chapter 1: Introduction to Informatica Chapter 2: Informatica Architecture Tutorial Chapter 3: How to Download & Install Informatica PowerCenter Chapter 4: How to Configure Client and Repository in Informatica Chapter 5: Source Analyzer and Target Designer in Informatica Chapter 6: Mappings in Informatica: Create, Components, Parameter, Variable Chapter 7: Workflow in Informatica: Create, Task, Parameter, Reusable, Manager Chapter 8: Workflow Monitor in Informatica: Task & Gantt Chart View Examples Chapter 9: Debugger in Informatica: Session, Breakpoint, Verbose Data & Mapping Chapter 10: Session Properties in Informatica Chapter 11: Introduction to Transformations in Informatica and Filter Transformation Chapter 12: Source Qualifier Transformation in Informatica with EXAMPLE Chapter 13: Aggregator Transformation in Informatica with Example Chapter 14: Router Transformation in Informatica with EXAMPLE Chapter 15: Joiner Transformation in Informatica with EXAMPLE Chapter 16: Rank Transformation in Informatica with EXAMPLE Chapter 17: Sequence Transformation in Informatica with EXAMPLE Chapter 18: Transaction Control Transformation in Informatica with EXAMPLE Chapter 19: Lookup Transformation in Informatica & Re-usable Transformation Example Chapter 20: Normalizer Transformation in Informatica with EXAMPLE Chapter 21: Performance Tuning in Informatica ★★★Download Today ~ Free to Read for Kindle Unlimited Subscribers!★★★

Communicating Process Architectures 2005 J.F. Broenink 2005-09-09 The awareness of the ideas characterized by Communicating Processes Architecture and their adoption by industry beyond their traditional base in safety-critical systems and security is growing. The complexity of modern computing systems has become so great that no one person – maybe not even a small team – can understand all aspects and all interactions. The only hope of making such systems work is to ensure that all components are correct by design and that the components can be combined to achieve scalability. A crucial property is that the cost of making a change to a system depends linearly on the size of that change – not on the size of the system being changed. Of course, this must be true whether that change is a matter of maintenance (e.g. to take advantage of upcoming multiprocessor hardware) or the addition of new functionality. One key is that system composition (and disassembly) introduces no surprises. A component must behave consistently, no matter the context in which it is used – which means that component interfaces must be explicit, published and free from hidden side-effect. This publication offers strongly refereed high-quality papers covering many differing aspects: system design and implementation (for both hardware and software), tools (concurrent programming languages, libraries and run-time kernels), formal methods and applications.